**Campylobacter jejuni subsp. jejuni, Strain MK 104**

**Catalog No. NR-4084**  
(Derived from ATCC® 43446™)

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**Contributor:**  
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**Manufacturer:**  
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**Product Description:**

_Bacteria Classification:_ Campylobacteraceae, Campylobacter  
_Species:_ Campylobacter jejuni subsp. jejuni  
_Strain:_ MK 104  
_Serotype:_ O:19  
_Original Source:_ Campylobacter jejuni (C. jejuni) subsp. jejuni strain MK 104 was isolated by Dr. M. Karmali from human feces at The Hospital for Sick Children in Toronto, Ontario, Canada.  
_Comment:_ This strain was deposited to the ATCC® by Dr. J. L. Penner in 1986.  

_C. jejuni_ is a Gram-negative slender, curved, motile rod commonly found in animal feces. It is a microaerophilic organism that is very sensitive to environmental stresses.\(^1\)  
_C. jejuni_ is among the most frequently identified bacterial causes of human gastroenteritis in the United States and other industrialized countries.\(^2\) Food poisoning caused by _C. jejuni_ can be largely attributed to the consumption of contaminated food animal products, especially poultry. In most cases, the resulting infection can be severely debilitating but is rarely life-threatening. However, in some cases, _C. jejuni_ infections have been linked to the subsequent development of two neuropathies, Guillain-Barré syndrome\(^3,4,5\) and Miller-Fisher syndrome\(^4\) and to a reactive arthropathy, Reiter syndrome.\(^2\)

**Material Provided:**  
Each vial contains approximately 0.5 mL of bacterial culture in Brucella broth supplemented with 10% glycerol.

**Note:** If homogeneity is required for your intended use, please purify prior to initiating work.

**Packaging/Storage:**  
NR-4084 was packaged aseptically, in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

**Growth Conditions:**

_Media:_  
Brucella broth, Tryptic soy broth or equivalent  
Tryptic Soy agar with 5% defibrinated sheep blood or Brucella agar or equivalent  

_Incubation:_  
Temperature: 37°C to 42°C  
Atmosphere: Microaerophilic (3 to 5% O\(_2\) and 4 to 8% CO\(_2\))

Propagation:

1. Keep vial frozen until ready for use, then thaw.  
2. Transfer the entire thawed aliquot into a single tube of broth.  
3. Use the suspension to inoculate an agar slant and/or plate.  
4. Incubate the tube, slant and/or plate at 37°C to 42°C for 24 to 48 hours.  

_Note:_ The thawed vial may be plated directly on TSA with 5% defibrinated sheep blood and grown at 37°C to 42°C in a microaerophilic atmosphere. This may require a longer incubation time than the biphasic culture.

**Citation:**  
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Campylobacter jejuni subsp. jejuni, Strain MK 104, NR-4084."

**Biosafety Level:**  
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**Disclaimers:**

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References:

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